



EXPRESS MAIL NO. EV335610955US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Linda Thorne and Richard W. Armentrout  
Application No. : 10/717,976  
Filed : November 20, 2003  
For : PURIFICATION AND USE OF GELLAN IN ELECTROPHORESIS  
GELS

Art Unit : 1753  
Docket No. : 850136.411  
Date : January 10, 2005

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

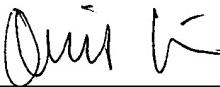
In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Forms PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited on the attached Forms PTO-1449, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

  
\_\_\_\_\_  
Qing Lin, Ph.D.  
Registration No. 53,937

QXL:ljt

Enclosures:

- Postcard
- Transmittal Form
- Form PTO-1449 (2 Sheets)
- Cited References (9)

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Sheet 1 of 2

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>850136.411</b>	APPLICATION NO. <b>10/717,976</b>
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS <b>Linda Thorne and Richard W. Armentrout</b>	
		FILING DATE <b>November 20, 2003</b>	GROUP ART UNIT <b>1753</b>

JAN 10 2005

PATENT TRADEMARK

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS/TRADEMARK	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,326,052	04/20/82	Kang et al.	536	1	
AB	4,326,053	04/20/82	Kang et al.	536	1	
AC	4,377,636	03/22/83	Kang et al.	435	101	
AD	4,385,123	05/24/83	Kang et al.	435	253	
AE	5,143,646	09/01/92	Nochumson et al.	252	315.3	
AF	5,185,466	02/09/93	Kozulic et al.	564	208	
AG	5,202,007	04/13/93	Kozulic	204	182.8	
AH	5,259,943	11/09/93	Kozulic et al.	204	299 R	
AI	5,278,270	01/11/94	Kozulic et al.	526	304	
AJ	5,319,046	06/07/94	Kozulic et al.	526	304	
AK	5,342,773	08/30/94	Thorne et al.	435	200	
AL	5,371,208	12/06/94	Kozulic	536	102	
AM	5,438,092	08/01/95	Kozulic et al.	524	555	
AN	5,541,255	07/30/96	Kozulic	525	54.3	
AO	5,767,196	06/16/98	Kozulic	525	54.3	
AP	5,840,877	11/24/98	Kozulic	536	25.4	
AQ	6,203,680 B1	03/20/01	Cole	204	469	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
AR		0 012 552 B1	12/01/82	EPO		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AS			
EXAMINER	DATE CONSIDERED		

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



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JFW

## TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Application Number	10/717,976
Filing Date	November 20, 2003
First Named Inventor	Linda Thorne
Art Unit	1753
Examiner Name	
Attorney Docket No.	850136.411

### ENCLOSURES (check all that apply)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 (2 Sheets)<br><input checked="" type="checkbox"/> 9 Cited References<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Request for Corrected Filing Receipt<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address<br><input type="checkbox"/> Declaration<br><input type="checkbox"/> Statement under 37 CFR 3.73(b)<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Return Receipt Postcard<br><input type="checkbox"/> Other Enclosure(s) (please identify below):<br><hr/> <hr/> <hr/> <hr/> |
|--|---|--|

### Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number	00500
Signature	Qing Lin, Ph.D.		
Printed Name	(Qing Lin)		
Date	January 10, 2005	Reg. No.	53,937

### CERTIFICATE OF TRANSMISSION/MAILING

### VIA EXPRESS MAIL

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
1550235

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <b>850136.411</b>	APPLICATION NO. <b>10/717,976</b>
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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BB					

**OTHER ART** (*Including Author, Title, Date, Pertinent Pages, Etc.*)

BC	Cole, K. et al., "Modification of the Electrokinetic Properties of Reversible Electrophoresis Gels for the Separation and Preparation of DNA," <i>Applied Biochemistry and Biotechnology</i> 82(1): 57-76, October 1999.
BD	Doner, L. W. and Douds, D. D., "Purification of Commercial Gellan to Monovalent Cation Salts Results in Acute Modification of Solution and Gel-forming Properties," <i>Carbohydrate Research</i> 273: 225-233, 1995.
BE	Jasson, P-E and Lindberg, B., "Structural Studies of Gellan Gum, and Extracellular Polysaccharide Elaborated by <i>Pseudomonas elodea</i> ," <i>Carbohydrate Research</i> 124: 135-139, 1983.
BF	"Gellan (PS-60) ,," in <i>Carbohydrate Chemistry</i> , Kennedy, J.F. (ed.), Oxford University Press, Oxford, 1987, Section 14.4.4, pg. 630.
BG	O'Neil, M.A. et al., "Structure of the Acidic Extracellular Gelling Polysaccharide Produced by <i>Pseudomonas elodea</i> ," <i>Carbohydrate Research</i> 124(1): 123-133, December 10, 1983.
BH	Sanderson, G.R., "Gellan Gum," in <i>Food Gels</i> , P. Harris (ed.) Elsevier Applied Science, New York 1990, Chapter 6, pgs. 201-232.
BI	Sanderson, G.R. and Clark, R.C., "Gellan Gum, a New Gelling Polysaccharide," in <i>Progress in Food and Nutrition Science</i> , vol. 7, Phillips, G.O. et al. (eds.), Pergamon Press, Oxford, 1984, pgs 201-210.
BJ	The Polysaccharides, vol. 2, Aspinall, G.O. (ed.), Academic Press, New York, 1983, pg. 479.
BK	
BL	

EXAMINER	DATE CONSIDERED
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